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10-027424

(FILE 'HOME' ENTERED AT 12:54:16 ON 14 MAY 2003)

FILE 'CA' ENTERED AT 12:54:21 ON 14 MAY 2003

L1 40433 S PROPIONATE  
L2 86 S PROPRIONATE  
L3 40479 S L1 OR L2  
L4 40 S L1 AND L2

FILE 'REGISTRY' ENTERED AT 12:55:00 ON 14 MAY 2003

L5 1 S L1 AND L2  
L6 0 S TRIPROPIONATE  
L7 110 S TRIPROPIONATE  
L8 1 S TRIETHANOLAMINE TRIPROPIONATE  
L9 0 S TRIETHANOLAMINE TRIPROPIONATE  
L10 1 S PROPRIONATE  
L11 1 S PROPRIONATE  
L12 11511 S PROPIONATE

STN

Database  
Search  
cited in

Search

Notes

Keep in file

IT    Kinetics of reduction  
       (of cobalt superoxo complexes, by cobalt bi- and terpyridine and  
       phenanthroline complexes)

IT    Kinetics of exchange reaction  
       (self-, for bond oxygen in cobalt ammine superoxo and cobalt cyano  
       superoxo complexes)

IT    Ammines  
       RL: USES (Uses)  
           (cobalt, reactions of dioxygen-bridged)

IT    Electric potential  
       (redn., of cobalt ammine superoxo and cobalt cyano superoxo complexes)

IT    15878-95-2    16788-34-4    18308-16-2  
       RL: RCT (Reactant); RACT (Reactant or reagent)  
           (redn. by, of cobalt ammine superoxo and cobalt cyano superoxo  
           complexes, kinetics of)

IT    12259-09-5    12374-80-0    12381-36-1  
       RL: RCT (Reactant); RACT (Reactant or reagent)  
           (redn. of, by cobalt pyridine-deriv. and phenanthroline complexes,  
           kinetics of)

L4    ANSWER 19 OF 19    CA    COPYRIGHT 2003 ACS

AN    89:181746    CA

TI    The effect of reynolds number on the collection efficiency of model grid  
       filters

AU    Fan, K. C.; Wamsley, B. T.; Furman, M.; Mooney, W.; Gentry, J.  
       W.

CS    Univ. Maryland, College Park, MD, USA

SO    AIChE Symposium Series (1978), 74(175), 2-9  
       CODEN: ACSSCQ; ISSN: 0065-8812

DT    Journal

LA    English

CC    48-7 (Unit Operations and Processes)

AB    Pressure drop and collection efficiencies across model grid filters were  
       measured as a function of the flow rate, particle size, and gas compn.  
       Data indicate that the pressure drop is correlated by the Fuchs-Stechkina  
       equation with a Happel flow field. Electron micrographs indicate that  
       channeling of the flow between aligned filters occur.

ST    grid filter efficiency Reynolds number; pressure drop grid filter

IT    Pressure drop

      (across grid filter, detn. of)

IT    Reynolds number

      (collection efficiency of grid filter in relation to)

IT    Filters and Filtration apparatus

      (grid, collection efficiency of, effect of Reynolds no. on)

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

80.05

80.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-12.40

-12.40

STN INTERNATIONAL LOGOFF AT 09:30:17 ON 14 MAY 2003

L4 ANSWER 61 OF 67 CA COPYRIGHT 2003 ACS  
AN 119:128419 CA  
TI High-sensitivity photopolymerizable composition useful for lithographic plate, photoresist, and transfer sheet  
IN Kondo, Shunichi; Umehara, Akira; Aotani, Norimasa; **Yamaoka, Tsugio**  
PA Fuji Photo Film Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 21 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM G03F007-027  
ICS G03F007-00; G03F007-027; G03F007-029; G03F007-032; H01L021-027;  
H05K003-00  
CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04330445	A2	19921118	JP 1991-17331	19910208
PRAI	JP 1991-17331		19910208		

AB The title compn. comprises (a) a cationically polymerizable compd.  $R[O(R1O)nHC:CH2]_n$  or  $R2[COOR1OHC:CH2]_n$  [R, R2 = polyalc. residue; R1 = C1-10 alkylene; n = 0, 1; and m = 2-6], (b) a compd. generating an acid upon irradn. of active ray, and (c) a solvent or an alk. sol. polymer. The compn. shows high sensitivity over UV to visible regions and its polymn. can not be suppressed with ambient O.  
ST photopolymerizable compn lithog plate; photoresist photopolymerizable compn; transfer sheet photopolymerizable compn  
IT Lithographic plates  
(manuf. of, photopolymerizable compns. for)  
IT Photoimaging compositions and processes  
(polymerizable, sensitive over UV to visible regions)  
IT Resists  
(photo-, photopolymerizable)  
IT Printing, nonimpact  
(sheets, transfer, photopolymerizable compns. for)  
IT 99-90-1, p-Bromoacetophenone 661-20-1D, Isocyanate, reaction product with triethylene glycol monovinyl ether 757-46-0 929-72-6, Triethylene glycol vinyl ether 929-72-6D, Triethylene glycol monovinyl ether, reaction product with isocyanate 2923-28-6 57758-90-4 137308-86-2 137308-90-8 137309-10-5 137309-17-2 137309-29-6  
RL: USES (Uses)  
(photopolymerizable compns contg., sensitive over UV to visible regions)

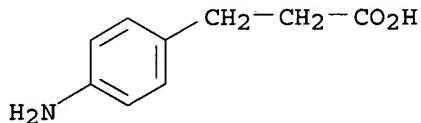
L4 ANSWER 56 OF 67 CA COPYRIGHT 2003 ACS  
AN 120:232106 CA  
TI Positive-working radiation-sensitive resin compositions  
IN Yamaoka, Tsugio; Murata, Makoto; Isamoto, Yoshitsugu; Miura, Takao  
PA Japan Synthetic Rubber Co Ltd, Japan  
SO Jpn. Kokai Tokkyo Koho, 10 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM G03F007-039  
ICS G03F007-004; H01L021-027  
CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
Section cross-reference(s): 76  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05265213	A2	19931015	JP 1992-91453	19920318
PRAI	JP 1992-91453		19920318		

AB The title compns. comprise a polymer having phenolic OH groups the H atoms of which are substituted partially or wholly with a group  $\text{CH}_2:\text{CROZ}$  ( $\text{R} = \text{H}$ ,  $\text{C1-4 alkyl}$ ;  $\text{Z} = \text{C2-4 alkylene}$ ) and a compd. which generates acid by irradn. The compns. are useful as pos.-working resists showing high sensitivity and giving high resoln. patterns with good profile and developability. A resist comprising triphenylsulfoniumtrifluoromethane sulfonate and a reaction product of polyhydroxystyrene and chloroethyl vinyl ether gave a submicron pattern by using excimer laser.

ST photoresist compn  
IT Phenolic resins, uses  
RL: USES (Uses)  
(novolak, vinyloxyalkyl ether, photoresist using)  
IT Resists  
(photo-, pos.-working, contg. polymer having phenolic hydroxy group etherified with vinyloxyalkyl group)  
IT 110-75-8D, ether with hydroxy group-contg. polymer 27029-76-1D, m-Cresol-p-cresol-formaldehyde copolymer, vinyloxyalkyl ether 59269-51-1D, Poly(hydroxy styrene), vinyloxyalkyl ether  
RL: USES (Uses)  
(photoresist using)

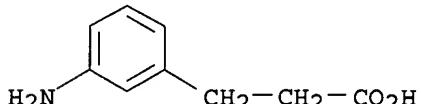
L1 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2003 ACS  
 RN 2393-17-1 REGISTRY  
 CN Benzenepropanoic acid, 4-amino- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Hydrocinnamic acid, p-amino- (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN  $\beta$ -(4-Aminophenyl)propionic acid  
 CN 3-(4-Aminophenyl)propionic acid  
 CN 3-(p-Aminophenyl)propionic acid  
 CN 4-Aminobenzenepropanoic acid  
 CN 4-Aminohydrocinnamic acid  
 CN p-Aminohydrocinnamic acid  
 FS 3D CONCORD  
 MF C9 H11 N O2  
 CI COM  
 LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST,  
     CSChem, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL  
     (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
     (\*\*Enter CHEMLIST File for up-to-date regulatory information)



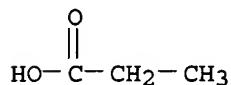
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

76 REFERENCES IN FILE CA (1957 TO DATE)  
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 77 REFERENCES IN FILE CAPLUS (1957 TO DATE)  
 9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2003 ACS  
 RN 1664-54-6 REGISTRY  
 CN Benzenepropanoic acid, 3-amino- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Hydrocinnamic acid, m-amino- (7CI, 8CI)  
 OTHER NAMES:  
 CN  $\beta$ -(3-Aminophenyl)propionic acid  
 CN 3-(3-Aminophenyl)propionic acid  
 CN 3-Aminobenzenepropanoic acid  
 CN 3-Aminohydrocinnamic acid  
 FS 3D CONCORD  
 MF C9 H11 N O2  
 CI COM  
 LC STN Files: ANABSTR, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,  
     CHEMCATS, CSChem, EMBASE, IFICDB, IFIPAT, IFIUDB, MEDLINE, PHAR,  
     TOXCENTER, USPATFULL  
     (\*File contains numerically searchable property data)



L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS  
RN 17203-66-6 REGISTRY  
CN Propanoic acid, calcium lead(2+) salt (6:2:1) (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Calcium lead propionate (Ca<sub>2</sub>Pb(C<sub>3</sub>H<sub>5</sub>O<sub>2</sub>)<sub>6</sub>) (6CI)  
CN Propionic acid, calcium lead(2+) salt (6:2:1) (8CI)  
OTHER NAMES:  
CN Calcium lead propionate (2:1:6)  
CN Dicalcium hexapropionatoplumbate  
CN Dicalcium lead hexapropionate  
CN Dicalcium lead hexaproprionate  
CN Dicalcium lead propionate  
CN Dicalcium lead propionate (Ca<sub>2</sub>Pb(C<sub>3</sub>H<sub>5</sub>O<sub>2</sub>)<sub>6</sub>)  
CN Dicalcium lead(2+) propionate  
CN Dicalcium lead(II) propionate  
CN Lead dicalcium propionate  
DR 55198-44-2  
MF C<sub>3</sub> H<sub>6</sub> O<sub>2</sub> . 1/3 Ca . 1/6 Pb  
LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, GMELIN\*, TOXCENTER  
(\*File contains numerically searchable property data)  
CRN (79-09-4)

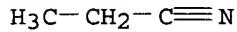


1/3 Ca

1/6 Pb(II)

68 REFERENCES IN FILE CA (1957 TO DATE)  
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
68 REFERENCES IN FILE CAPLUS (1957 TO DATE)  
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS  
RN 107-12-0 REGISTRY  
CN Propanenitrile (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Propionitrile (8CI)  
OTHER NAMES:  
CN Cyanoethane  
CN Ether cyanatus  
CN Ethyl cyanide  
CN Hydrocyanic ether  
CN n-Propanenitrile  
CN Propionic nitrile  
CN Propiononitrile  
CN Propynitrile  
FS 3D CONCORD  
MF C3 H5 N  
CI COM  
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DIPPR\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HODOC\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM\*, PROMT, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL, VTB  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3385 REFERENCES IN FILE CA (1957 TO DATE)  
44 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
3387 REFERENCES IN FILE CAPLUS (1957 TO DATE)  
9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

58 REFERENCES IN FILE CA (1957 TO DATE)  
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
58 REFERENCES IN FILE CAPLUS (1957 TO DATE)  
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 1 OF 1 CA COPYRIGHT 2003 ACS  
AN 94:217579 CA  
TI Photoimaging sheets  
PA Ricoh Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC G03C001-72; G03C001-76; G03C005-00  
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic Processes)  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 55156938	A2	19801206	JP 1979-64003	19790525 <--
PRAI	JP 1979-64003		19790525		

AB A transparent (or semitransparent) porous support is coated with a compn. contg. a leuco dye and a biimidazole compd. on 1 side and then coated with a photosensitive compn. contg. a quinone deriv. and a proton donor on the other side to give a photoimaging sheet. Thus, a compn. consisting of bis(4-diethylamino-o-tolyl)(4-diethylaminophenyl)methane 48.5, 2,2'-bis(o-chlorophenyl)-4,4',5,5'-tetraphenylbiimidazole 132, p-toluenesulfonic acid monohydrate 38, polyethylene glycol 300 mg, cellulose acetate butyrate 1g, and Me<sub>2</sub>CO 10 mL was coated on a porous thin paper support and subsequently the backside of the support was coated with a compn. contg. p-benzoquinone 10 mg, cellulose acetate 1 g, Me<sub>2</sub>CO 9, 2-propanol 1, and triethanolamine triacetate 0.4 mL to give a photoimaging sheet. The sheet was imagewise exposed to a W lamp, then the photosensitive layer was covered with a polyester film, the sheet was heated at 100.degree., and uniformly exposed to a UV light to give blue-pos. images in the recording layer.

ST photothermog sheet photofixing type  
IT Photothermography  
(photofixing type photosensitive sheets for)  
IT 68582-45-6  
RL: USES (Uses)  
(photofixing type photothermog. sheet contg.)  
IT 71-23-8, uses and miscellaneous 80-39-7 104-15-4, uses and  
miscellaneous 106-51-4, uses and miscellaneous 110-16-7, uses and  
miscellaneous 130-15-4 1707-68-2 3002-18-4 4482-70-6 9002-89-5  
9004-36-8  
RL: USES (Uses)  
(photofixing type photothermog. sheets contg.)